

MSG 028B - BLUE FD04 MISSION SUMMARY

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2 Good morning Blue! While you slept, the Red team did a great job with their PAO event.
3 Everyone on the ground enjoyed seeing their smiling faces!

4 There are just a few minor changes to the Blue FD4 timeline, mostly w.r.t video
5 opportunities. Since our water production is much less than predicted, we have deleted the
6 FES dump for today. Also, we are not accumulating as much condensate in the Spacehab
7 so the CST to CWC xfers will only be scheduled for the Red team.

8 The PhAB-4 vampires couldn't be happier with how smoothly the sample collections and
9 tracer infusions are going. They really appreciate all of the call downs to let them know how
10 operations are going. Special thanks to Mike for "sticking" it out and giving Dave one more
11 chance to get that monovette filled. After FD3, the entire payload crew can truly say "I gave
12 at the office!"

13 The ARMS team is very pleased with the data they are seeing. After your transport screw
14 manipulations, the ARMS data is looking much better. ARMS is also very pleased with your
15 runs – the respiratory maneuvers have been excellent! Keep up the great work!

16 FREESTAR continues to collect great science! SOLSE checkout data looked great. CVX
17 and LPT continue to perform exceptionally. MEIDEX ran into some tele-command problems
18 on the POCC computer that necessitated some great (and greatly appreciated) extra effort
19 and coordination by the crew. We're looking into the problems now.

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FIW SUMMARY

<u>SYSTEM</u>	<u>FAILURE</u>	<u>IMPACT</u>	<u>WORK AROUND</u>
EPS 1	Cryo O2 TK 7 A HTR not working in the ON position.	None.	Will use O2 TK7 A HTR in AUTO. Heater verified to be functional in Auto mode.
EPS 2	FCMS Data cable (SN #1003) is suspect.	None.	Use backup FCMS Data cable for FCMS Ops. The next FCMS data take is currently scheduled for Blue FD16.
FREESTAR/MEIDEX 1	MEIDEX VCRs 2 and 3 stopped recording immediately after activation by ground cmd. Cause unknown.	No recording for Orbit 28 ground ops. Crew successfully activated VCRs on Orbit 29. VCRs later responded nominally to POCC control and have functioned nominally since.	Until the problem is better understood, the crew will be prime for in-canister VCR commanding.
FREESTAR/MEIDEX 2	Occasional corrupt tlm appears in POCC data. LOS and loss of sync may be contributing to problem. Cause under investigation.	When tlm corrupt, PLD health and status not accurate; command verification difficult. Impacts MEIDEX ground command ops.	POCC will ensure that only computer in control of payload has AUTOTLM selected. POCC will have crew take control when POCC not able to verify commands.
SHAB 1	Degraded flow in the SPACEHAB water loop when using water pump 2	Degraded water loop performance which would require real-time assessment to determine if it could support the water-cooled payloads (VCD and CM-2) when using pump 2	Ground has swapped to water pump 1 and regained nominal water loop flowrates
SHAB 2	Ku Ch 2 data from Side A of the EDS is generating checksum errors when received in the POCC. Swapping to Side B of the EDS was no joy since no data was received on the ground in this configuration.	POCC hardware is experiencing frequent lock-ups which results in the loss of the POCC's ability to monitor real-time Ku Ch 2 data for a few minutes.	POCC must recover the ground equipment manually following lockups.